

ABSTRACT OF THE DISCLOSURE

In double-layer capacitor and rechargeable battery electrochemical cell systems comprising opposed electrode members of polymeric matrix composition having an interposed electrically insulative, ion-conductive separator member incorporating electrolyte solution, thermal lamination of the electrode members to an interposed paper separator member to form a unitary cell structure is enabled by initially providing in the region of the separator/electrode interface, either incorporated into the electrode composition or situated in the separator member, a sufficient amount of a supplemental plasticizer compatible with the electrode matrix polymer to render at least the surface portion of the electrode composition capable of adhesive flow under the selected conditions of laminating heat and pressure. After lamination, a sufficient amount of the supplemental plasticizer is removed, by evaporation or selective extraction, to ensure against delamination of the cell structure in the event of exposure to vagrant heating.